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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Kiyoharu HIRAO et al.

Appl. No. : 10/030,124

Group Art Unit: 1626

Filed : January 24, 2002

Examiner: Robert Gerstl

For : METHOD OF PURIFYING ORGANIC PHOSPHORIC ESTER

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner For Patents
PO Box 1450,
Alexandria, Virginia 23313-1450

Sir:

Pursuant to 37 C.F.R. § 1.56 and 37 C.F.R. §§ 1.97-1.98, and further to the Information Disclosure Statement filed April 24, 2002, Applicants hereby direct the Examiner's attention to the following documents:

- (1) JP 10-168227 A (ASAHI CHEM. IND. CO. LTD), 23 June 1998; accompanied by an English language abstract thereof (provided by Patent Abstracts of Japan);
- (2) JP 06-009661 A (FMC CORP.), 18 January 1994; accompanied by an English language abstract thereof (provided by Patent Abstracts of Japan);
- (3) U.S. Patent No. 5,206,404 (GUNKEL et al.), 27 April 1993; Applicants note that this document is a family member of document (2) above;

06/11/2003 NMOHAMM1 00000051 10030124

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180.00 OP

P21917.A04

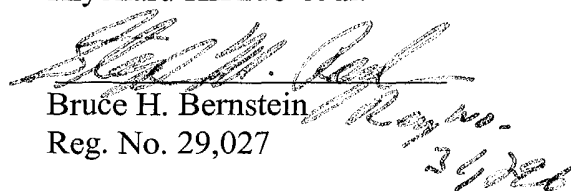
(4) WO 98/35970 A1 (GREAT LAKES CHEMICAL CORP.), 20 August 1998.

Copies of the above-listed documents are enclosed together with a completed copy of the PTO-1449 Form listing these documents. Accordingly, the Examiner is requested to consider these documents and to indicate such consideration by returning a signed and initialed copy of the PTO-1449 Form with the next official communication.

Also enclosed is the payment under 37 C.F.R. § 1.17(p) (\$180.00). If any further fee is necessary for consideration of this disclosure statement, the undersigned hereby authorizes the Commissioner to charge any fee necessary for the consideration of this statement to Deposit Account No. 19-0089.

If the Examiner has any questions, the undersigned can be contacted at the below-listed telephone number.

Respectfully submitted,
Kiyoharu HIRAO et al.


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June 10, 2003
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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US98/02968

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) :C07F 9/02; C08K 5/52

US CL :524/127; 558/94, 147

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 524/127; 558/94, 147

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2,520,090 A (BARRETT) 22 August 1950, col. 2, line 43 through col. 3, line 36.	1-16
A	US 4,267,127 A (SELBECK et al.) 12 May 1981, see the abstract.	1-16
A	US 5,135,973 A (FUKAWASA et al.) 04 August 1992, col. 2, lines 4-58.	1-16



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
A document defining the general state of the art which is not considered to be of particular relevance	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
E earlier document published on or after the international filing date	*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	*G* document member of the same patent family
O document referring to an oral disclosure, use, exhibition or other means	
P document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

04 MAY 1998

Date of mailing of the international search report

22 MAY 1998

Name and mailing address of the ISA/US
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